

PHILIP W. TOWLE  
Air Pollution Control Officer  
DONNA M. ROBERTS  
Administrative Aide



COUNTY OF MENDOCINO  
AIR QUALITY MANAGEMENT DISTRICT  
UKIAH, CALIFORNIA 95482

Rec. 4/4/00  
(NZ on 4/7/00)

306 East Gobbi Street  
Ukiah, California  
(707) 463-4354  
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March 31, 2000

Nahid Zoueshtiagh  
MS AIR-3  
US EPA Region IX  
75 Hawthorn Street  
San Francisco 94105

Dear Ms. Zoueshtiagh;

Enclosed please find the following items to assist EPA in it's formal forty-five (45) day review of the draft Title V permit for the Georgia Pacific West, Inc., Fort Bragg facility (GPW):

- Draft Title V Permit for Georgia Pacific West, Fort Bragg CA
- Statement of Basis
- GPW comments from Public Notification
- District responses to all public comments

You have in your possession the GPW application.

In addition, I have available a ~~strikeout~~ underline copy of the draft Permit showing the changes from the working draft that I submitted to you in November. I will forward an electronic version of this if you so desire.

If there are any questions, please contact Dr. Dean Wolbach at 707-463-5706 or <wolbachd@co.mendocino.ca.us>.

Yours truly

C. D. Wolbach, Ph.D.  
Sr. Air Quality Specialist  
MCAQMD

encl(4)

**County of Mendocino**  
**Air Quality Management District**  
Ukiah, California 95482

**Permit to Operate**

is Hereby Granted to

**Georgia Pacific West, Inc.**

for Equipment Located at:

90 West Redwood Avenue  
Fort Bragg, California

Subject to the Listed Conditions

Issue Date:

Permit No.

Valid Through:

\_\_\_\_\_  
Philip Towle  
Air Pollution Control Officer

\_\_\_\_\_  
Date



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**List of Abbreviations**

<b>Acronym</b>	<b>Definition</b>
H&SC	California State Health and Safety Code
MCAQMD	Mendocino County Air Quality Management District
Auth.	Regulatory authority for a given permit condition
40 CFR	Title 40, Code of Federal Regulations
APCO	Air Pollution Control Officer
USEPA	United States Environmental Protection Agency
CEM	Continuous Emissions Monitor

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## Chapter 1 – General Provisions

### I. GENERAL PERMIT CONDITIONS

- A. All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Permit to Operate shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

[Auth. §I(B): MCAQMD Regulation 1, Rule 240(d)(1)]

- B. In the event of any violation of District Rules and Regulations, PERMITTEE shall notify the District by telephone and take action to end such violation. Notification shall be as soon as possible, but no later than one (1) hour after its detection during normal office hours (8:00 am to 5:00 pm), or one (1) hour after the start of the next regular business day, whichever is sooner. PERMITTEE shall follow up with written notification and description of corrective action within two (2) weeks.

[Auth. §I(B): MCAQMD Regulation 5, Rule 450(b)]

- C. The exceedance of any limiting condition is prohibited without prior application for, and the subsequent granting of, an Authority to Construct permit and, if necessary, a Prevention of Significant Deterioration (PSD) Permit.

[Auth. §I(C): MCAQMD Regulation 1, Rule 200(a)]

### II PERMIT TERM

This permit shall be valid for 5 years from the date of issuance.

[Auth. §II: 40 CFR 70.6(a)(2); MCAQMD Regulation 5, Rule 5.660]

### III COMPLIANCE WITH PERMIT CONDITIONS

- A. PERMITTEE shall comply with all permit conditions. The non-compliance with any permit condition is grounds for permit termination, revocation and re-issuance, modification, enforcement action, or denial of permit renewal.

[Auth. §III(A): 40 CFR 70.6(a)(6)(i); MCAQMD Regulation 5, Rule 5.610(g)(1)]

- B. This permit does not convey property rights or exclusive privilege of any sort.

[Auth. §III(B): 40 CFR 70.6(a)(6)(iv); MCAQMD Regulation 5, Rule 5.610(g)(2)]

- C. PERMITTEE shall not use the “need to hold or reduce a permitted activity in order to maintain compliance” as a defense for non-compliance with any permit condition.

[Auth. §III(C): 40 CFR 70.6(a)(6)(ii), MCAQMD Regulation 5, Rule 5.610(g)(4)]

- D. A pending permit action or notification of anticipated noncompliance does not stay any permit condition.

[Auth. §III(D): MCAQMD Regulation 5, Rule 5.610(g)(5)]

- E. Within a reasonable time period, PERMITTEE shall furnish any information requested by the air pollution control officer (APCO) of Mendocino County Air Quality Management District, in writing, for the purpose of determining: 1) compliance with the permit, or 2) whether or not cause exists for a permit or enforcement action.

[Auth. §III(E): 40 CFR 70.6(a)(6)(v)]

#### **IV FEE PAYMENT**

- A. Permit fees shall be paid in five installments, one due each year on the anniversary of the permit issuance. The first installment is due upon issuance of the permit.
- B. The permit fees for this permit shall be calculated equivalent to the existing annual permit fee structure of the District.
- C. The permit fees for this permit shall replace the existing annual permit fees imposed by the District

[Auth. §IV: Federal 40 CFR 70.6(a)(7); MCAQMD Regulation 5, Rule 5.670]

#### **V INSPECTION AND ENTRY**

PERMITEE shall allow the Air Pollution Control Officer, the Chairman of the California Air Resources Board, the Regional Administrator of the United States Environmental Protection Agency, and/or their authorized representatives, upon presentation of credentials, to do any of the following:

- A. To enter upon the premises where the source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
- B. At reasonable times, to have access to and copy any records necessary for the determination of emissions of pollutants to the air or required to be kept under the terms and conditions of this permit; and
- C. To inspect any equipment, operation, or subject in this permit; and
- D. To sample emissions from this source.

[Auth. §V: Federal 40 CFR 70.6(c)(2), MCAQMD Regulation 5, Rule 5.610(e)]

#### **VI UPSETS AND BREAKDOWNS**

- A. PERMITTEE shall notify the District by telephone of any failure of air pollution control equipment, process equipment, or of any abnormal operation which results in an increase in emissions above the allowable limits stated in the Permit Units Section of this permit. Notification shall be as soon as possible, but no later than one (1) hour after its detection during normal office hours (8:00 am to 5:00 p.m.), or one (1) hour after the start of the next regular business day, whichever is sooner. PERMITTEE shall follow up with written notification and description of corrective action within two (2) weeks.

- B. PERMITTEE shall report upsets and breakdowns to the District in accordance with Regulation 5, Rule 5.450 of the District.

[Auth. §VI: Federal 40 CFR 70.6(a)(3)(iii)(B); MCAQMD Regulation 5, Rule 5.450]

## VII CERTIFICATION OF COMPLIANCE

### A. Compliance Certification

1. PERMITTEE shall submit compliance certification reports to the District for each calendar year. This report shall be submitted within 60 days of the end of each calendar year. The certification shall include:
  - a. Identification of each term or condition of the permit that is the basis of the certification,
  - b. compliance status,
  - c. the method used for determining compliance, and
  - d. whether the compliance monitoring method is a continuous method or an intermittent method.

[Auth. §VII(A)(1): Federal 40 CFR 70.6(c)(5)]

2. PERMITTEE shall use District approved forms for the compliance certification and shall also include a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report.

[Auth. §VII(A)(2): Federal 40 CFR 70.6(b)(5); MCAQMD Regulation 5, Rule 5.650]

3. A copy of each compliance certification shall be submitted to the Administrator, USEPA Region 9. The submittal address is:

USEPA Region 9  
Air Division (AIR-3)  
75 Hawthorne Street  
San Francisco, CA 94105-3901

[Auth. §VII(A)(3): Federal 40 CFR 70.6(c)(5)(iv)]

### B. Compliance Plan

1. PERMITTEE will continue to comply with those permit conditions with which it is in compliance.

[Auth. §VII(B)(1): Federal 40 CFR 70.5(c)(8)(iii)(A)]

2. PERMITTEE shall comply with all federally enforceable requirements that become applicable during the permit term, in a timely manner.

[Auth. §VII(B)(2): Federal 40 CFR 70.6(c); MCAQMD Regulation 5, Rule 5.630]

## VIII RECORDKEEPING AND REPORTING

### A. Log books

1. Separate logbooks or other records shall be kept on site and contain the information required and described in each equipment subsection (6) under Section IV – Equipment Specific Permit Conditions.

[Auth. §VIII(A)(1): MCAQMD Regulation 5, Rule 5.455(c)]

2. PERMITTEE will maintain a record of all required monitoring. The record shall include:

- a. The date, place, and time of sampling or measurement,
- b. The date the analyses were performed,
- c. The company that performed the analyses
- d. The analytical techniques or methods used
- e. The results of such analyses, and
- f. The operating conditions existing at the time of sampling or measurement.

[Auth. §VIII(A)(2): Federal 40 CFR 70.6(a)(3)(ii)(A)]

3. The recorded information shall be retained for at least five years from date of initial entry, and shall be made available to the District's inspector upon request.

[Auth. §VIII(A)(3): Federal 40 CFR 70.6(a)(3)(ii)(B)]

### B. Excess Emissions

1. PERMITTEE shall notify the District of any upset conditions, breakdown, scheduled maintenance or any changes in operation or process which causes a violation of emission limitations prescribed by this permit, by District Rules and Regulations, or by State law, or which involves the operability of in-stack monitoring equipment. Notice shall be given as soon as reasonably possible but no later than one (1) hour after its detection during normal business hours. The completion of corrective measures or the shut down of emitting equipment is required within 48 hours of the occurrence of a breakdown condition (96 hours for in-stack monitoring equipment).
2. PERMITTEE shall submit a written report of all excess emissions to the APCO biannually. The reporting periods shall be January to June and July to December. Each report shall be submitted within 30 days of the end of the biannual period and include the following:
  - a. The magnitude of excess emissions, the method of computation, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions. If CEM data is available, then computation shall be in accordance with 40 CFR 60.13(h).

- b. Specific identification of each period of excess emissions (emissions greater than those allowed during normal operation not including start-up, shutdown, and malfunction) that occurs during startup, shutdown, and malfunctions of the boiler systems. The nature and cause of any malfunction (or probable cause of the malfunction, if unknown) and the corrective action taken or preventative measures adopted shall also be reported.
- c. When no excess emissions have occurred, such information shall be stated in the report.
- d. Excess emissions shall be defined as those exceeding the limits established for normal operation (not start-up or shutdown) in the Permit Units Section of this Permit.

[Auth §VIII(B): Federal 40 CFR 70.6(a)(6)(v), MCAQMD Regulation 5, Rule 5.610(g)(6)]

#### C. Deviation from permit requirements

1. PERMITTEE shall report any deviation from requirements in this Permit to Operate, other than deviations related to excess emissions, to the APCO within 24 hours.
2. PERMITTEE shall submit a written monitoring report which summarizes monitoring data for the reporting period and reports all deviations from permit requirements, including deviations attributable to upset conditions, to the APCO every six months. The reporting periods shall be January to June and July to December. These reports shall be submitted within 30 days of the end of each reporting period.
3. PERMITTEE shall use District approved forms for the report regarding deviation from permit requirements and shall also include a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report. When no deviations have occurred for the quarter, such information shall be stated in the report.

[Auth. §VIII(C): 40 CFR 70.6(a)(3)(iii); MCAQMD Regulation 5, Rule 5.625]

#### IX TRANSFER OF OWNERSHIP {District}

This permit is not transferable. In the event of any change in control or ownership of the facilities operated pursuant to this permit, the permit shall be deemed null and void, and PERMITTEE shall surrender it to the District. PERMITTEE shall notify the succeeding owner/operator of the existence of this permit and its conditions by letter, a copy of which shall be sent to the Air Pollution Control Officer. (The new owner/operator will be responsible to arrange for re-issuance of this permit in his/her name.)

[Auth. §IX: MCAQMD Regulation 1, Rule 240(j)]

**X REOPENING FOR CAUSE**

A. This permit may be modified, revoked, reopened, or terminated for cause.

[Auth. §X(A): 40 CFR 70.7(f)(2); MCAQMD Regulation 5, Rule 5.570(a)]

B. This permit shall be reopened and revised if:

1. Additional requirements become applicable, and more than three years remain on the term of the permit.
2. Additional acid rain requirements become applicable to the source.
3. The permit contains a material mistake or inaccurate statements were made in establishing terms or conditions of the permit.
4. The permit must be revised or revoked to assure compliance with applicable requirements.

[Auth. §X(B): 40 CFR 70.7(f)(1); MCAQMD Regulation 5, Rule 5.570(b)]

C. Filing of a request for permit action by PERMITTEE does not stay any permit condition.

[Auth. §X(C): 40 CFR 70.6(a)(6)(iii);]

**XI PERMIT MODIFICATION {District}**

An Authority to Construct application shall be obtained from the District prior to the modification or replacement of any equipment for which a Permit to Operate has been granted; and prior to the installation and operation of any equipment for which an Authority to Construct is required pursuant to the California Health and Safety Code, Section 42300.

[Auth. §XII: MCAQMD Regulation 1, Rule 200(a)]

**XII SEVERABILITY**

The provisions of this permit are severable, and, should any provision of this permit be held invalid, the remainder of this Permit shall not be affected thereby.

[Auth. §XIII: 40 CFR 70.6(a)(5); H&SC 41511; MCAQMD Regulation 5, Rule 5.610(h)]



### XIII PROHIBITIONS

#### A. Public Nuisance

PERMITTEE shall meet all requirements of District Regulation 1, Rule 400(a), with regard to public nuisance. **{District}**

[Auth. §XIV(A): H&SC 41700, MCAQMD Regulation 1, Rule 400(a)]

#### B. Visible Emissions

PERMITTEE shall meet all requirements of District Regulation 1, Rule 410, with regard to visible emissions. **{District}**

[Auth. §XIV(B): H&SC 41701, MCAQMD Regulation 1, Rule 410]

#### C. Fugitive Dust Emissions –

PERMITTEE shall meet all requirements of District Regulation 1, Rule 430, with regard to fugitive dust emissions. **{District}**

[Auth. §XIV(C): MCAQMD Regulation 1, Rule 430]

#### D. Sulfur Oxide Emissions

PERMITTEE shall meet all requirements of District Regulation 1, Rule 440, with regard to sulfur oxide emissions

[Auth. §XIV(D): MCAQMD Regulation 1, Rule 440]

#### E. Circumvention –

PERMITTEE shall meet all requirements of District Regulation 1, Rule 410, with regard to circumvention of District rules and regulations. **{District}**

[Auth. §XIV(E): MCAQMD Regulation 1, Rule 400(b)]

#### F. Open Burning –

PERMITTEE shall meet all requirements of District Regulation 2, with regard to open burning. **{District}**

[Auth. §XIV(F): MCAQMD Regulation 2]

#### G. Title VI, Stratospheric Ozone Protection –

PERMITTEE shall meet all requirements of 40 CFR 82 Subpart F for the recycling and emissions reduction of ozone depleting substances.

[Auth. §XIV(G): Federal 40 CFR 70.2]

#### H. National Emissions Standard for Asbestos –

PERMITTEE shall meet all requirements of District Regulation 1, Rule 492 during the demolition or renovation of any structure containing asbestos materials.

[Auth. §XIV(H): Federal 40 CFR 70.2, MCAQMD Regulation 1, Rule 492]

## Chapter 2– Equipment Lists

### I. Process 1 - Sawmill Line

Equipment Item No.	Process Line No.	Equipment Identification
1	P1	Log deck area
2	P1	Debarkers (2)
3	P1	Hammer Hog
4	P1	Cut-off saws (2)
5	P1	Quad saws (2)
6	P1	Edgers (2)
7	P1	Trimmers (2)
8	P1	Resaw
9	P1	Sawmill sorters (2)
10	P1	Sawmill chipper
11	P1	Shaker screen
12	P1	Sawmill chip bin
13	P1	Air drying area
14	P1	Pre-dryers (6)
15	P1	Kilns (11)
16	P1	<b>Cyclone abating saw fillers – East (PERMIT No. 96-53)</b>
17	P1	<b>Cyclone abating saw fillers – West (PERMIT No. 96-54)</b>
18	P1	Target box for sawmill (not shown)
19	P1	Collection system for sawmill building fugitive abatement

### II. Process 2 – Planing Mill Line

Equipment No.	Process Line No.	Equipment Identification
20	P2	Planer
21	P2	Landing/grading/trimmer deck
22	P2	Planing mill trimmer
23	P2	Planing mill sorter
24	P2	Planing mill chipper
25	P2	Planing mill shaker screen
26	P2	Planing mill chip bin
27	P2	Planing mill shavings bin
28	P2	<b>Cyclone abating planing mill (PERMIT No. 95-25)</b>
29	P2	<b>Shavings Bin Cyclone (PERMIT No. 85-29)</b>
30	P2	Target box for planing mill
31	P2	Collection system for planing mill building fugitive abatement

**III. Process 3 – Fence Line**

<b>Equipment No.</b>	<b>Process Line No.</b>	<b>Equipment Identification</b>
32	P3	Dog-ear trimmer
33	P3	Dog-ear saw
34	P3	Dog-ear resaw
35	P3	Bundling machine
36	P3	Fence Line chipper
37	P3	Fence Line shaking screen
<b>38</b>	<b>P3</b>	<b>Cyclone abating Fence Line (PERMIT No. 76-10)</b>
39	P3	Target box for Fence Line
40	P3	Collection system for Fence Line fugitive abatement

**IV. Process 4 – Powerhouse Line**

<b>Equipment No.</b>	<b>Process Line No.</b>	<b>Equipment Identification</b>
41	P4	Fuel house truck dump
42	P4	<b>Fuel House Cyclone (PERMIT No. 76-17)</b>
43	P4	Fuel house
44	P4	Fuel house beach storage piles
45	P4	Fuel house hammer hog
<b>46</b>	<b>P4</b>	<b>Wood stoker Boiler No. 1 (PERMIT No. 76-20)</b>
47	P4	Wet scrubber for Boiler No. 1
<b>48</b>	<b>P4</b>	<b>Wood stoker Boiler No. 2 (PERMIT No. 76-21)</b>
49	P4	Wet scrubber for Boiler No. 2
<b>50</b>	<b>P4</b>	<b>Wood stoker Boiler No. 3 (PERMIT No. 82-01)</b>
51	P4	Wet scrubber for Boiler No. 3
52	P4	Sand hopper

**V. Facility Support Systems**

<b>Equipment No.</b>	<b>Process Line No.</b>	<b>Equipment Identification</b>
NA	P5	Roads (paved)
NA	P5	Roads (unpaved)
NA	P5	Stationary IC engines (gasoline)
NA	P5	Stationary IC engines (diesel)
NA	P5	Non-road vehicles (gasoline)
NA	P5	Non-road vehicles (diesel)
NA	P5	Non-road vehicles (NG)
NA	P5	Fuel oil storage tanks
NA	P5	Diesel storage tanks
<b>53</b>	<b>P5</b>	<b>Gasoline storage tank (PERMIT No. 94-02)</b>
<b>54</b>	<b>P5</b>	<b>Vapor recovery system (PERMIT No. 94-02)</b>
NA	P5	Cooling Tower

```

graph TD
    RawLogs[Raw logs] --> LogDeck[Log Deck Area*]
    LogDeck --> Debarkers[Debarbers* (2)]
    Debarkers --> CutoffSaws[Cut-off Saws* (2)]
    CutoffSaws --> QuadSaws[Quad - Saws* (2)]
    QuadSaws --> Edgers[Edgers* (3)]
    Edgers --> Trimmers[Trimmers (2)*]
    Trimmers --> Sorters[Sorters* (2)]
    Sorters --> Predryers[Predryers* (6) & Kilns* (11)]
    Sorters --> AirDrying[Air Drying]
    Predryers --> Storage[To storage areas, planing mill, or shipped off-site]
    AirDrying --> Storage
    Trimmers --> Chipper[Chipper*]
    Edgers -- Trim --> Chipper
    CutoffSaws -- Trim --> HammerHog[Hammer-Hog*]
    Debarkers -- Trim --> HammerHog
    HammerHog --> Fuel[Hogged fuel to fuel house]
    Chipper --> ShakerScreen[Shaker Screen*]
    ShakerScreen --> ChipBin[Chip Bin]
    ChipBin --> ShakerScreen
    ChipBin --> Dump[To Truck Dump or shipped off-site]
    ShakerScreen -- Sawdust --> Sawdust[To Truck Dump or shipped off-site]
    Chipper --> Resaw[Resaw*]
    Resaw --> Chipper
    
```

Permit No. 96-53

Permit No. 96-54

Raw logs

Log Deck Area\*

Debarbers\* (2)

Cut-off Saws\* (2)

Quad - Saws\* (2)

Edgers\* (3)

Trimmers (2)\*

Sorters\* (2)

Predryers\* (6) & Kilns\* (11)

Air Drying

To storage areas, planing mill, or shipped off-site

Trim

Chipper\*

Shaker Screen\*

Chip Bin

Hammer-Hog\*

Hogged fuel to fuel house

To Truck Dump or shipped off-site

Sawdust

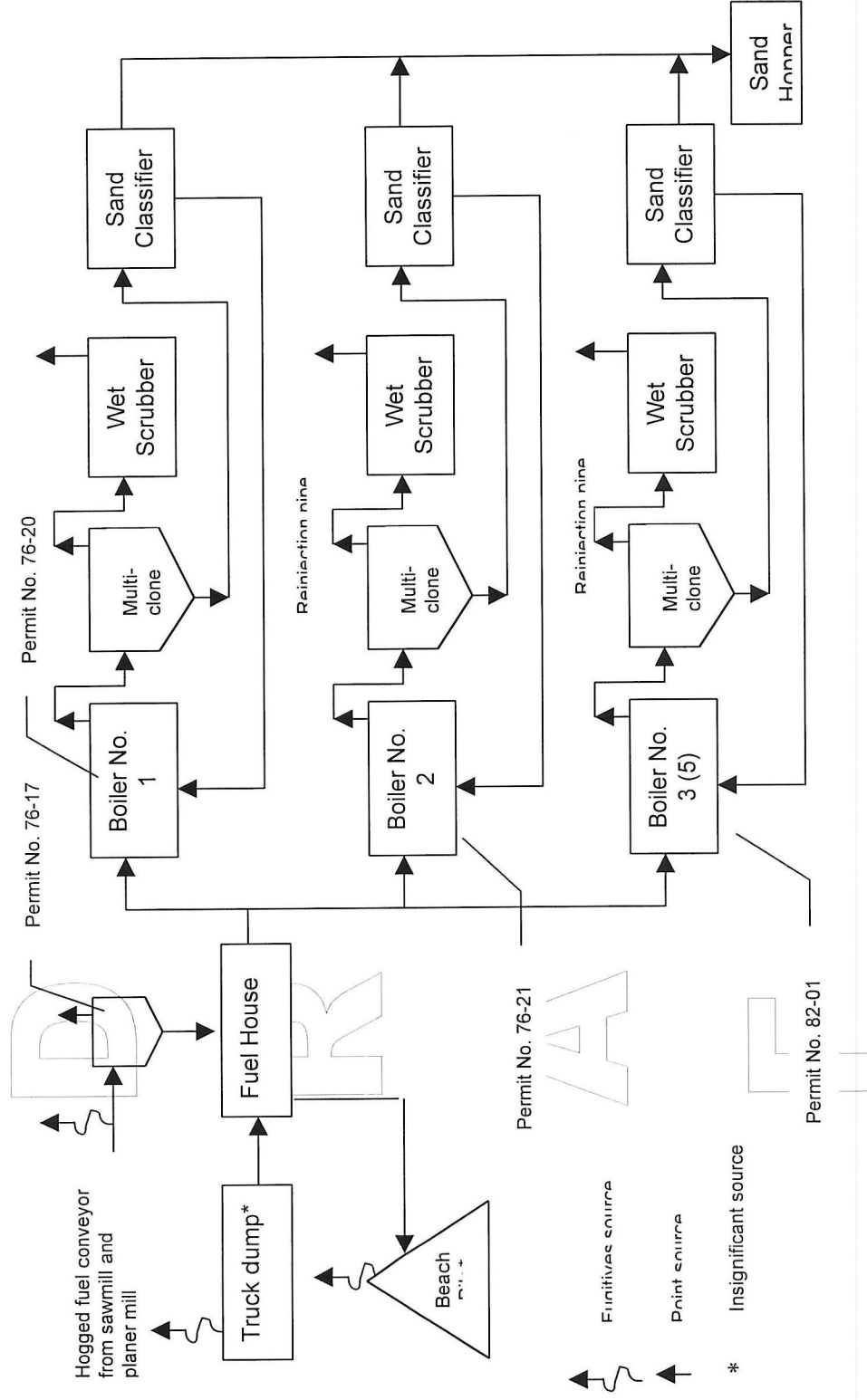
Resaw\*

Furniture source

Furniture source



# Process Flow Diagram Georgia Pacific Fort Bragg Sawmill Power Line



## Chapter 3 – Equipment Specific Permit Conditions

### I. Process 1 – Sawmill Line

A. Equipment Item No. 16 – East Cyclone with blower motor abating the saw filers.

1. Basic Equipment

Abatement: Plant Schematic Permit No.96-53  
Make:  
Model:  
Serial No:  
Power source: Electricity  
Design Rate: 15 hp  
Comments:

2. Control Equipment - NA

3. Monitoring Equipment - None

4. Emissions Limitations

a. Particulate Matter

i. Particulate loading

PERMITTEE shall not cause to be discharged particulate matter into the atmosphere in excess of 0.20 gr/dscf (0.46 grams per dry standard cubic meter) of exhaust gas.

ii. Visible emissions

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period.

b. Carbon Monoxide - NA

c. Nitrogen Oxides - NA

d. Sulfur oxides - NA

e. Hydrocarbons - NA

f. HAPs - NA

[Auth. §I(A)(4): MCAQMD Permit No. 0120-1-20-96-53]

5. Periodic monitoring

a. Particulate Matter {District}

i. Particulate loading

PERMITTEE shall conduct performance testing for particulate material once within the first year of the permit period. Particulate emissions shall be monitored using Oregon DEQ Method 8.



## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 22 of 40 CFR Part 60 App. A modified to allow observation of the exhaust duct of the cyclone. If visible emissions are observed, the PERMITTEE shall conduct testing using EPA Method 9 or other EPA approved method.

- b. Carbon Monoxide - NA
- c. Nitrogen Oxides - NA
- d. Sulfur oxides - NA
- e. Hydrocarbons - NA
- f. HAPs - NA

[Auth. §I(A)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Reporting and Record Keeping

- a. PERMITTEE shall report the results of all tests conducted under the requirements of §5(a)(i) above within 60 days of the completion of the test.
- b. PERMITTEE shall maintain a record of visible emissions inspections conducted under the requirements of §5(a)(ii) above. The record shall include:
  - i. Name of observer
  - ii. Date of inspection
  - iii. Results of observation
  - iv. Method of observation

[Auth. §I(A)(6): MCAQMD Regulation 5, Rule 5.455]

## 7. Operating Conditions {District}

- a. PERMITTEE shall operate and maintain the equipment according to manufacturer's specifications.
- b. Sawdust/wood shavings or other particulate material collected in the cyclone control device(s) shall be discharged only into closed containers. No container shall be filled beyond its capacity.
- c. PERMITTEE shall operate equipment with access covers and inspection hatches sealed. Containment bins and hopper doors shall be closed during operation to prevent fugitive emissions.

[Auth. §I(A)(7): MCAQMD Permit No. 0120-1-20-96-53]

## B. Equipment Item No. 17 – West Cyclone with blower motor abating the saw fillers.

## 1. Basic Equipment

Abatement: Plant Schematic Permit No.96-54  
Make:  
Model:  
Serial No:  
Power source: Electricity  
Design Rate: 15 hp  
Comments:

## 2. Control Equipment - NA

## 3. Monitoring Equipment - None

## 4. Emissions Limitations {District}

## a. Particulate Matter

## i. Particulate loading

PERMITTEE shall not cause to be discharged particulate matter into the atmosphere in excess of 0.20 gr/dscf (0.46 grams per dry standard cubic meter) of exhaust gas.

## ii. Visible emissions

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period.

## b. Carbon Monoxide - NA

## c. Nitrogen Oxides - NA

## d. Sulfur oxides - NA

## e. Hydrocarbons - NA

## f. HAPs - NA

[Auth. §I(A)(4): MCAQMD Permit No. 0120-1-20-96-53]

## 5. Periodic monitoring

a. Particulate Matter **{District}**

## i. Particulate loading

PERMITTEE shall conduct performance testing for particulate material once within the first year of the permit period. Particulate emissions shall be monitored using Oregon DEQ Method 8.

## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 22 of 40 CFR Part 60 App. A modified to allow observation of the exhaust duct of the cyclone. If visible emissions are observed, then PERMITTEE shall conduct testing using EPA Method 9 or other EPA approved method.

## b. Carbon Monoxide - NA

## c. Nitrogen Oxides - NA

## d. Sulfur oxides - NA

## e. Hydrocarbons - NA

## f. HAPs - NA

[Auth. §I(A)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Reporting and Record Keeping

a. PERMITTEE shall report the results of all tests conducted under the requirements of §5(a)(i) above within 60 days of the completion of the test.

b. PERMITTEE shall maintain a record of visible emissions inspections conducted under the requirements of §5(a)(ii) above. The record shall include:

i. Name of observer

ii. Date of inspection

iii. Results of observation

iv. Method of observation

[Auth. §I(A)(6): MCAQMD Regulation 5, Rule 5.455]

7. Operating Conditions

- a. PERMITTEE shall operate and maintain the equipment according to manufacturer's specifications.
- b. Sawdust/wood shavings or other particulate material collected in the cyclone control device(s) shall be discharged only into closed containers. No container shall be filled beyond its capacity.
- c. PERMITTEE shall operate equipment with access covers and inspection hatches sealed. Containment bins and hopper doors shall be closed during operation to prevent fugitive emissions.

[Auth. §I(A)(7): MCAQMD Permit No. 0120-1-20-96-53]

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## II Process 2 – Planing Mill Line

A. Equipment Item No. 28 – Cyclone with blower motor abating Planing Mill and Fence Line equipment

1. Basic Equipment

Abatement: Plant Schematic Permit No. 95-25  
Make:  
Model:  
Serial No:  
Power source: Electricity  
Design Rate: 20 hp  
Comments:

2. Control Equipment - NA

3. Monitoring Equipment - None

4. Emissions Limitations {District}

a. Particulate Matter

i. Particulate loading

PERMITTEE shall not cause to be discharged particulate matter into the atmosphere in excess of 0.20 gr/dscf (0.46 grams per dry standard cubic meter) of exhaust gas.

ii. Visible emissions

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period.

b. Carbon Monoxide - NA

c. Nitrogen Oxides - NA

d. Sulfur oxides - NA

e. Hydrocarbons - NA

f. HAPs - NA

[Auth. §I(A)(4): MCAQMD Permit No. 0120-1-20-96-53]

## 5. Periodic monitoring

## a. Particulate Matter {District}

## i. Particulate loading

PERMITTEE shall conduct performance testing for particulate material once during the first year of the permit term and once during the third year of the permit term. Particulate emissions shall be monitored using Oregon DEQ Method 8. If the compliance test result of the first test is less than one-half the permitted standard, then the District may waive the second compliance test.

## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 22 of 40 CFR Part 60 App. A modified to allow observation of the exhaust duct of the cyclone. If visible emissions are observed, then PERMITTEE shall conduct testing using EPA Method 9 or other EPA approved method.

## b. Carbon Monoxide - NA

## c. Nitrogen Oxides - NA

## d. Sulfur oxides - NA

## e. Hydrocarbons - NA

## f. HAPs - NA

[Auth. §I(A)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Reporting and Record Keeping

a. PERMITTEE shall report the results of all tests conducted under the requirements of §5(a)(i) above within 60 days of the completion of the test.

b. PERMITTEE shall maintain a record of visible emissions inspections conducted under the requirements of §5(a)(ii) above. The record shall include:

i. Name of observer

ii. Date of inspection

iii. Results of observation

iv. Method of observation

[Auth. §I(A)(6): MCAQMD Regulation 5, Rule 5.455]

7. Operating Conditions **{District}**

- a. PERMITTEE shall operate and maintain the equipment according to manufacturer's specifications.
- b. Sawdust/wood shavings or other particulate material collected in the cyclone control device(s) shall be discharged only into closed containers. No container shall be filled beyond its capacity.
- c. PERMITTEE shall operate equipment with access covers and inspection hatches sealed. Containment bins and hopper doors shall be closed during operation to prevent fugitive emissions.

[Auth. §I(A)(7): MCAQMD Permit No. 0120-1-20-96-53]

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- B. Equipment Item No. 29 – Cyclone with blower motor abating the conveyor to the shavings bin.

1. Basic Equipment

Abatement: Plant Schematic Permit No. 85-29

Make:

Model:

Serial No:

Power source: Electricity

Design Rate: 15 hp

Comments:

2. Control Equipment - NA

3. Monitoring Equipment - None

4. Emissions Limitations {District}

a. Particulate Matter

i. Particulate loading

PERMITTEE shall not cause to be discharged particulate matter into the atmosphere in excess of 0.20 gr/dscf (0.46 grams per dry standard cubic meter) of exhaust gas.

ii. Visible emissions

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period.

b. Carbon Monoxide - NA

c. Nitrogen Oxides - NA

d. Sulfur oxides - NA

e. Hydrocarbons - NA

f. HAPs - NA

[Auth. §I(A)(4); MCAQMD Permit No. 0120-1-20-96-53]

5. Periodic monitoring

a. Particulate Matter {District}

i. Particulate loading

PERMITTEE shall conduct performance testing for particulate material once per year. Particulate emissions shall be monitored using Oregon DEQ Method 8. If the compliance test result is less than one-half the permitted standard, then the District may waive the next year compliance test.



## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 22 of 40 CFR Part 60 App. A modified to allow observation of the exhaust duct of the cyclone. If visible emissions are observed, then PERMITTEE shall conduct testing using EPA Method 9 or other EPA approved method.

- b. Carbon Monoxide - NA
- c. Nitrogen Oxides - NA
- d. Sulfur oxides - NA
- e. Hydrocarbons - NA
- f. HAPs - NA

[Auth. §I(A)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Reporting and Record Keeping

- a. PERMITTEE shall report the results of all tests conducted under the requirements of §5(a)(i) above within 60 days of the completion of the test.
- b. PERMITTEE shall maintain a record of visible emissions inspections conducted under the requirements of §5(a)(ii) above. The record shall include:
  - i. Name of observer
  - ii. Date of inspection
  - iii. Results of observation
  - iv. Method of observation

[Auth. §I(A)(6): MCAQMD Regulation 5, Rule 5.455]

## 7. Operating Conditions {District}

- a. PERMITTEE shall operate and maintain the equipment according to manufacturer's specifications.
- b. Sawdust/wood shavings or other particulate material collected in the cyclone control device(s) shall be discharged only into closed containers. No container shall be filled beyond its capacity.
- c. PERMITTEE shall operate equipment with access covers and inspection hatches sealed. Containment bins and hopper doors shall be closed during operation to prevent fugitive emissions.

[Auth. §I(A)(7): MCAQMD Permit No. 0120-1-20-96-53]

**III. Process 3 – Fence Line****A. Equipment Item No. 38 – Cyclone with blower motor abating the Fence Line chipper and shaker screen****1. Basic Equipment**

Abatement: Plant Schematic Permit No. 76-10  
Make:  
Model:  
Serial No:  
Power source: Electricity  
Design Rate: 20 hp  
Comments:

**2. Control Equipment - NA****3. Monitoring Equipment - None****4. Emissions Limitations {District}****a. Particulate Matter****i. Particulate loading**

PERMITTEE shall not cause to be discharged particulate matter into the atmosphere in excess of 0.20 gr/dscf (0.46 grams per dry standard cubic meter) of exhaust gas.

**ii. Visible emissions**

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period.

**b. Carbon Monoxide - NA****c. Nitrogen Oxides - NA****d. Sulfur oxides - NA****e. Hydrocarbons - NA****f. HAPs - NA**

[Auth. §I(A)(4): MCAQMD Permit No. 0120-1-20-96-53]

**5. Periodic monitoring****a. Particulate Matter {District}****i. Particulate loading**

PERMITTEE shall conduct performance testing for particulate material once per year. Particulate emissions shall be monitored using Oregon DEQ Method 8. If the compliance test result is less than one-half the permitted standard, then the District may waive the next year compliance test.

## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 22 of 40 CFR Part 60 App. A modified to allow observation of the exhaust duct of the cyclone. If visible emissions are observed, then PERMITTEE shall conduct testing using EPA Method 9 of 40 CFR Part 60 App. A or other EPA approved method.

- b. Carbon Monoxide - NA
- c. Nitrogen Oxides - NA
- d. Sulfur oxides - NA
- e. Hydrocarbons - NA
- f. HAPs - NA

[Auth. §I(A)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Reporting and Record Keeping

- a. PERMITTEE shall report the results of all tests conducted under the requirements of §5(a)(i) above within 60 days of the completion of the test.
- b. PERMITTEE shall maintain a record of visible emissions inspections conducted under the requirements of §5(a)(ii) above. The record shall include:
  - i. Name of observer
  - ii. Date of inspection
  - iii. Results of observation
  - iv. Method of observation

[Auth. §I(A)(6): MCAQMD Regulation 5, Rule 5.455]

## 7. Operating Conditions {District}

- a. PERMITTEE shall operate and maintain the equipment according to manufacturer's specifications.
- b. Sawdust/wood shavings or other particulate material collected in the cyclone control device(s) shall be discharged only into closed containers. No container shall be filled beyond its capacity.
- c. PERMITTEE shall operate equipment with access covers and inspection hatches sealed. Containment bins and hopper doors shall be closed during operation to prevent fugitive emissions.

[Auth. §I(A)(7): MCAQMD Permit No. 0120-1-20-96-53]

**IV Process 4 – Powerhouse Line****A. Equipment Item No. 46 – Boiler No. 1****1. Basic equipment**

Source: Wood waste stoker steam boiler  
Make: Riley Stoker  
Model:  
Serial No:  
Power source: Wood bark, back-up oil  
Design Rate: 143MMBtu/hr (wood bark rating)  
Burner design: Stoker, fixed grate  
Comments: Nominal flue gas characteristics: 160F; 57,279 SCFM; 39,504 DSCFM;  
31% H<sub>2</sub>O; 14.7% CO<sub>2</sub>

**2. Control Equipment - Multiclones, and wet scrubber (E38)****3. Monitoring Equipment – Steam production rates****4. Emissions Limitations****a. Particulate Matter****i. Particulate loading –**

PERMITTEE shall not cause to be discharged particulate matter into the atmosphere in excess of 0.20 gr/scf (0.46 grams per standard cubic meter) of exhaust gas, calculated to 12 percent carbon dioxide (CO<sub>2</sub>) determined by CARB Method 5 total catch.

[Auth §IV(A)(4)(a)(i): Federal 40 CFR 60.42(a)(1); MCAQMD Regulation 1, Rule 420(b), MCAQMD Permit No. 0120-1-20-76-20-1]

**ii. Visible emissions –**

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period. The opacity standard applies at all times except for periods of start-up, shutdown, and malfunction.–The standard shall not be exceeded during start-up, shutdown, or malfunction for more than 30 minutes in any rolling twenty-four (24) hour period.

[Auth §IV(A)(4)(a)(ii): H&SC 41704(n), MCAQMD Regulation 1, Rule 410(b), MCAQMD Permit No. 0120-1-20-76-20-1]

**b. Carbon Monoxide – NA****c. Nitrogen Oxides – NA****d. Sulfur Oxides - NA****e. Hydrocarbons – NA****f. HAPs– (Note: Limited by individual metals content limits on purchased demolition wood waste fuel under §V(A)(3)-(5).)**

## 5. Periodic monitoring

All periodic monitoring tests will be conducted at the maximum rated operating capacity of the unit plus or minus 10%. The following methods shall be used for determining compliance with the above emissions limitations:

### a. Particulate Matter

#### i. Particulate loading –

PERMITTEE shall conduct performance testing for particulate material once per year. Particulate emissions shall be monitored using CARB Method 5. If the compliance test result is less than one-half the permitted standard, then the District may waive the next year compliance test.

#### ii. Visible emissions –

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 9 of 40 CFR Part 60 App. A, or other EPA approved method.

### b. Carbon Monoxide -

PERMITTEE shall conduct performance testing for carbon monoxide during each compliance test for particulate emissions. Carbon monoxide shall be monitored using EPA Method 10 of 40 CFR Part 60 App. A, or other EPA approved method.

### c. Nitrogen Oxides -

PERMITTEE shall conduct performance testing for nitrogen oxides once per year. Nitrogen oxides shall be monitored using EPA Methods 7-7E of 40 CFR Part 60 App. A, or other EPA approved methods.

### d. Sulfur Oxides -

Sulfur oxide emissions shall be monitored by calculating estimated emissions from fuel oil sulfur content and fuel consumption. Fuel oil sulfur content shall be determined by ASTM Method D115-68 or D129-64. PERMITTEE shall conduct the emissions calculations and report the results once per year.

### e. Hydrocarbons - NA

### f. HAPs

PERMITTEE shall conduct performance testing for heavy metals emissions at the discretion of the District. The District shall not require such testing more frequently than once per annum. Heavy metals emissions shall be monitored using CARB Method 436.

[Auth. §IV(A)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Record Keeping and Reporting

Boiler operation records shall be provided to the District on an annual basis and at such other times as deemed necessary. These records shall include:

a. Steam production for the boiler in pounds.

b. Fuel composition and consumption records as specified in §V(A)

[Auth. §IV (A)(6): MCAQMD Permit No. 0120-1-20-76-20-1]

7. Operating Conditions

- a. PERMITTEE shall use only wood waste products (bark, chips, sawdust, and urban wood waste) as primary fuel with standby use of fuel oil allowed only during periods of grate cleaning, main fuel feed failure, or other bonafide emergencies.
- b. PERMITTEE shall report all equipment malfunctions or breakdowns to the District in accordance with Mendocino County Air Quality Management District Regulation 1, Rule 450.

[Auth. §IV (A)(7)(a) & (b): MCAQMD Permit No. 0120-1-20-76-20-1]

- c. Fuel Limitations (See Section V(A))

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## B. Equipment Item No. 48 – Boiler No. 2

## 1. Basic Equipment

Source: Wood waste stoker steam boiler  
Make: Riley Stoker  
Model:  
Serial No:  
Power source: Wood bark, back-up oil  
Design Rate: 143MMBtu/hr (wood bark rating)  
Burner design: Stoker, fixed grate  
Comments: Nominal flue gas characteristics: 160F; 57,279 SCFM; 39,504 DSCFM;  
31% H<sub>2</sub>O; 14.7% CO<sub>2</sub>

## 2. Control Equipment - Multiclones and wet scrubber (E40)

## 3. Monitoring Equipment – Steam production rates

## 4. Emissions Limitations

## a. Particulate Matter

## i. Particulate loading

PERMITTEE shall not cause to be discharged into the atmosphere particulate matter in excess of 0.20 gr/scf (0.46 grams per standard cubic meter) of exhaust gas, calculated to 12 percent carbon dioxide (CO<sub>2</sub>)-determined by CARB Method 5 total catch.

[Auth. §IV(B)(4)(a)(i): Federal 40 CFR 60.42(a)(1); MCAQMD Regulation 1, Rule 420(b), MCAQMD Permit No. 0120-1-21-76-21-1]

## ii. Visible emissions

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period. The opacity standard applies at all times except for periods of start-up, shutdown, and malfunction.–The standard shall not be exceeded during start-up, shutdown, or malfunction for more than 30 minutes in any rolling twenty-four (24) hour period.

[Auth. §IV(B)(4)(a)(ii): H&SC 41704(n), MCAQMD Regulation 1, Rule 410(b), MCAQMD Permit No. 0120-1-21-76-21-1]

## b. Carbon Monoxide - NA

## c. Nitrogen Oxides – NA

## d. Sulfur Oxides - NA

## e. Hydrocarbons - NA

## f. HAPs – (Note: Limited by individual metals content limits on purchased demolition wood waste fuel under §V(A)(3)-(5).)

## 5. Periodic monitoring

All periodic monitoring tests will be conducted at the maximum rated operating capacity of the unit plus or minus 10%. The following methods shall be used for determining compliance with the above emissions limitations:

## a. Particulate Matter

## i. Particulate loading

PERMITTEE shall conduct performance testing for particulate material once per year. Particulate emissions shall be monitored using CARB Method 5. If the compliance test result is less than one-half the permitted standard, then the District may waive the next year compliance test.

## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 9 of 40 CFR Part 60 App. A or other EPA approved method.

## b. Carbon Monoxide -

PERMITTEE shall conduct performance testing for carbon monoxide during each compliance test for particulate emissions. Carbon monoxide shall be monitored using EPA Method 10 of 40 CFR Part 60 App. A, or other EPA approved method.

## c. Nitrogen Oxides -

PERMITTEE shall conduct performance testing for nitrogen oxides once per year. Nitrogen oxides shall be monitored using EPA Methods 7-7E of 40 CFR Part 60 App. A or other EPA approved methods.

## d. Sulfur Oxides -

Sulfur oxide emissions shall be monitored by calculating estimated emissions from fuel oil sulfur content and fuel consumption. Fuel oil sulfur content shall be determined by ASTM Method D115-68 or D129-64. PERMITTEE shall conduct the emissions calculations and report the results once per year.

## e. Hydrocarbons - NA

## f. HAPs

PERMITTEE shall conduct performance testing for heavy metals emissions at the discretion of the District, but no more frequently than once per annum. Heavy metals emissions shall be monitored using CARB Method 436.

[Auth. §IV(B)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Record Keeping and Reporting

Boiler operation records shall be provided to the District on an annual basis and at such other times as deemed necessary. These records shall include:

a. Steam production for the boiler in pounds.

b. Fuel composition and consumption records as specified in §V(A)

[Auth §IV(B)(6): MCAQMD Permit No. 0120-1-201-76-21-1]



7. Operating Conditions

- a. PERMITTEE shall use only wood waste products (bark, chips, sawdust, and hogged urban wood waste) as primary fuel with standby use of fuel oil allowed only during periods of grate cleaning, main fuel feed failure, or other bonafide emergencies.
- b. PERMITTEE shall report all equipment malfunctions or breakdowns to the District in accordance with Mendocino County Air Quality Management District Regulation 1, Rule 450.

[Auth §~~IV~~(B)(7)(a) & (b): MCAQMD Permit No. 0120-1-201-76-21-1]

- c. Fuel Limitations (See §~~V~~(A))

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## C. Equipment Item No. 50 – Boiler No. 3

## 1. Basic Equipment

Source: Wood waste stoker steam boiler with cinder reinjection  
Make: Riley Stoker  
Model: SAM 150  
Serial No:  
Power source: Wood bark, back-up oil  
Design Rate: 270MMBtu/hr (wood bark rating)  
Burner design: Stoker, traveling grate  
Comments: 120,000 lbs/hr rated steam capacity using hog fuel wood waste as fuel.  
Nominal flue gas characteristics: 144F, 76,300 SCFM, 59,000 DSCFM,  
22.7% H<sub>2</sub>O, 10.4% CO<sub>2</sub>

## 2. Control Equipment - Flyash reinjection, multiclones, and wet scrubber (E41)

## 3. Monitoring Equipment - Steam production rates

## 4. Emissions Limitations

## a. Particulate Matter

## i. Particulate loading

PERMITTEE shall not cause to be discharged into the atmosphere particulate matter in excess of 0.05 grains per dry standard cubic foot corrected to 12 percent carbon dioxide (CO<sub>2</sub>) determined by CARB Method 5 front half catch (probe wash plus filter catch).

PERMITTEE shall not cause to be discharged into the atmosphere particulate matter in excess of 0.1 grains per standard cubic foot corrected to 12 carbon dioxide (CO<sub>2</sub>) determined by CARB Method 5 (total catch). The particulate standard applies at all times except for periods of start-up, shutdown, and malfunction.

[Auth. §IV(C)(4)(a)(i): Federal 40 CFR 60.43b(c)(1), MCAQMD Permit No. 0120-1-20-82-01-1]

## ii. Particulate loading {District}

PERMITTEE shall not cause to be discharged into the atmosphere particulate matter in excess of 21.0 lbs/hr (2 hour average) @ 98,000±5,000 pounds steam/hour operating rate.

[Auth. §IV(C)(4)(a)(ii): MCAQMD Permit No. 0120-1-20-82-01-1]

## iii. Visible emissions {District}

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period. The opacity standard applies at all times except for periods of start-up, shutdown, and malfunction.—The standard shall not be exceeded during start-up, shutdown, or malfunction for more than 30 minutes in any rolling twenty-four (24) hour period.

[Auth. §IV(C)(4)(a)(iv): Federal 40 CFR 60.43b(f), H&SC 41704(n), MCAQMD Regulation 1, rule 410(b)]

- b. Carbon Monoxide - NA
- c. Nitrogen Oxides – (Note: Limited by steam production and fuel use limits under §IV(C)(7)(a) and §V(A)(1) below.)  
[Auth. §IV(C)(4)(c): Federal 40 CFR 60.44b(c)]
- d. Sulfur Oxides – (Note: Limited by sulfur content limits on fuel and fuel use limits under §IV(C)(6)(c))  
[Auth. §IV(C)(4)(d): Federal 40 CFR 60.44b(c)]
- e. Hydrocarbons - NA
- f. HAPs – (Note: Limited by individual metals content limits on purchased demolition wood waste fuel under §V(A)(3)-(5).)

5. Monitoring for Compliance

- a. Particulate loading  
Particulate loading shall be monitored using CARB Method. PERMITTEE shall conduct performance testing for particulate material once per year. If the compliance test result is less than one-half the permitted standard, then the District may waive the next year compliance test.
- b. Visible emissions  
PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 9 of 40 CFR Part 60 App. A or other EPA approved method.
- c. Carbon monoxide  
PERMITTEE shall conduct performance testing for carbon monoxide during each compliance test for particulate emissions. Carbon monoxide shall be monitored using EPA Method 10 of 40 CFR Part 60 App. A, or other EPA approved method.
- d. Nitrogen Oxides  
PERMITTEE shall conduct performance testing for nitrogen oxides once per year. Nitrogen oxides shall be monitored using EPA Methods 7-7E of 40 CFR Part 60 App. A, or other EPA approved methods.
- e. Sulfur oxides  
Sulfur oxide emissions shall be determined by calculating estimated annual emissions from fuel oil sulfur content and fuel consumption. PERMITTEE shall report the results of the calculations once per year. (See §IV(C)(6)(c)(iv) & (v)).  
[Auth. §IV(C)(5): MCAQMD Regulation 5, Rule 5.620]
- f. HAPS (See also §V(A)(6)  
PERMITTEE shall conduct performance testing for heavy metals emissions at the discretion of the District, but no more frequently than once per annum. Heavy metals emissions shall be monitored using CARB Method 436.

## 6. Record Keeping and Reporting

### a. Steam Production

PERMITTEE shall operate and maintain strip chart recorders or equivalent to record steam production rates.

[Auth § IV(C)(6)(a): MCAQMD Permit No. 0120-1-20-82-01-1]

### b. Wet scrubber pressure drop

PERMITTEE shall record once daily in a permanent record the wet scrubber flange to flange operating pressure drop.

[Auth § IV(C)(6)(b): MCAQMD Permit No. 0120-1-20-82-01-1]

### c. Fuel composition and consumption records as specified in §V(A)

### d. Reporting

All records required under this permit shall be available for periodic inspection by the Mendocino Air Quality Management District, the California Air Resources Board, and/or the U.S. Environmental Protection Agency.

[Auth § IV(C)(6)(d): MCAQMD Permit No. 0120-1-20-82-01-1]

## 7. Operating Conditions

### a. Steam Production Limits

- i. PERMITTEE shall not generate steam from the No. 3 Boiler in excess of 140,000 lbs/hr on a 24-hr average.
- ii. PERMITTEE shall not generate steam from the No. 3 Boiler in excess of 98,000 lbs/hr on an annual average.

[Auth §IV(C)(7)(a): MCAQMD Permit No. 0120-1-20-82-01-1]

### b. Fuel Limitations (See also §V(A))

Fuel oil may be used as a supplement for no more than 438 hrs/year

[Auth §IV(C)(7)(c) MCAQMD Permit No. 0120-1-20-82-01-1]

## D. Equipment Item No. 42 - Cyclone abating conveyor to fuel house

## 1. Basic Equipment

Abatement: Plant Schematic Permit No. 76-17  
Make:  
Model:  
Serial No:  
Power source: Electricity  
Design Rate: 20 hp  
Comments:

## 2. Control Equipment- NA

## 3. Monitoring Equipment - None

## 4. Emissions Limitations {District}

## a. Particulate Matter

## i. Particulate loading

PERMITTEE shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/dscf (0.46 grams per dry standard cubic meter) of exhaust gas.

## ii. Visible emissions

PERMITTEE shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity for any period or periods aggregating more than 3 minutes in any one hour period.

## b. Carbon Monoxide - NA

## c. Nitrogen Oxides - NA

## d. Hydrocarbons - NA

## e. HAPs - NA

[Auth. §IV(D)(4): MCAQMD Permit No. 0120-1-20-76-10]

## 5. Periodic monitoring {District}

## a. Particulate Matter

## i. Particulate loading

PERMITTEE shall conduct performance testing for particulate material once per year. Particulate emissions shall be monitored using Oregon DEQ Method 8. If the compliance test result is less than one-half the permitted standard, then the District may waive the next year compliance test.

## ii. Visible emissions

PERMITTEE shall conduct performance testing for visible emissions once per quarter. Visible emissions shall be monitored using EPA Method 22 of 40 CFR Part 60 App. A modified to allow observation of the exhaust duct of the cyclone. If visible emissions are observed, then PERMITTEE shall conduct testing using EPA Method 9 of 40 CFR Part 60 App. A or other EPA approved method.

- b. Carbon Monoxide - NA
- c. Nitrogen Oxides - NA
- d. Sulfur oxides - NA
- e. Hydrocarbons - NA
- f. HAPs - NA

[Auth. §IV(D)(5): MCAQMD Regulation 5, Rule 5.620]

## 6. Record Keeping and Reporting

- a. PERMITTEE shall report the results of all tests conducted under the requirements of §5(a)(i) above within 60 days of the completion of the test.
- b. PERMITTEE shall maintain a record of visible emissions inspections conducted under the requirements of §5(a)(ii) above. The record shall include:
  - i. Name of observer
  - ii. Date of inspection
  - iii. Results of observation
  - iv. Method of observation

[Auth. §I(A)(6): MCAQMD Regulation 5, Rule 5.455]

7. Operating Conditions **{District}**

- a. PERMITTEE shall operate and maintain the equipment according to manufacturer's specifications.
- b. Sawdust/wood shavings or other particulate material collected in the cyclone control device(s) shall be discharged only into closed containers. No container shall be filled beyond its capacity.
- c. PERMITTEE shall operate equipment with access covers and inspection hatches sealed. Containment bins and hopper doors shall be closed during operation to prevent fugitive emissions.

[Auth. §IV(D)(7): MCAQMD Permit No. 0120-1-20-96-53-9]

**V. Plant Wide Special Conditions****A. Fuel Limitations**

1. PERMITTEE shall use only wood waste products (bark, chips, and sawdust) as primary fuel.
2. Fuel oil sulfur content shall not exceed 1.75% on a daily average basis nor 1.55% on an annual average basis, as determined by ASTM Method D115-68 or D129-64

[Auth §V(A)(1) & (2): MCAQMD Permit No. 0120-1-20-82-01-1]

3. PERMITTEE shall not burn more than 300 tons per day of demolition wood waste.
4. Each lot of purchased demolition wood waste shall be sampled by a District approved sampling procedure.
5. Metals content in purchased demolition wood waste fuel shall not exceed the following individual limits in milligrams of element per kilogram of demolition wood waste (mg/kg) as determined by US EPA SW846 Methods 3052 (sample preparation) and 6020 (sample analysis):

antimony (Sb)	0.2 mg/kg
arsenic (As)	0.1
beryllium (Be)	0.1
cadmium (Cd)	0.1
chromium (Cr)	0.1
copper (Cu)	500
lead (Pb)	100
manganese (Mn)	10
mercury (Hg)	2
nickel (Ni)	0.5
vanadium (V)	100
zinc (Zn)	500

[Auth §V(A)(3)-(5): Federal 40 CFR 50.21(i)(8)(i), MCAQMD]

6. Record keeping and reporting:

PERMITTEE shall maintain a permanent record of daily fuel usage that includes:

- i. Wood waste (hogged) fuel consumed, measured in bone dry tons.
- ii. Metals content of each lot of demolition wood waste fuel purchased (see §V(A)(5).
- iii. Demolition wood waste consumed, measured in bone dry tons.
- iv. Fuel oil consumed in U.S. gallons.
- v. Length of time fuel oil consumed.
- vi. Sulfur content of each lot of fuel purchased.
- vii. Estimated annual emissions of heavy metals from demolition wood metals content and demolition wood consumption.

PERMITTEE shall provide the records to the District on an annual basis and at such other times as deemed necessary by the District. The annual period shall be from January to December. The report shall be furnished to the District by February 1 of the year following the reporting period.

[Auth §V(A)(6): MCAQMD Permit No. 0120-1-20-82-01-1]

B. Dust Mitigation Measures **{District}**

PERMITTEE shall at all times operate the plant, log yard or lumber yard, fuel house truck dump, fuel house beach storage pile area, soil amendment areas, and all supporting activities in such a manner as to minimize fugitive dust emissions and ensure compliance with Mendocino County Air Pollution Control District Regulation 1, Rule 430 (fugitive dust emissions). This requirement shall include but not be limited to:

1. The prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.
2. The application of asphalt, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dust.
3. The paving of roadways and their maintenance in a clean condition.
4. Limiting vehicle speed to not more than 10 mph on unpaved surfaces in the immediate area of the plant.
5. Keeping soil amendment lay-downs damp before and during tilling operations.
6. The appointment and designation by name of a dust control officer. This person shall have the responsibility and requisite authority to ensure that plant operations, including control of fugitive dust emissions, are in compliance with District regulations at all times. PERMITTEE shall provide to the District in writing the name of the person appointed within thirty days of issuance of this permit, and thereafter upon change.

[Auth §V(A): MCAQMD Regulation 1, Rule 430, Permit No. 0120-1-20-76-10-2]

C. Fugitive Emissions Mitigation Measures **{District}**

PERMITTEE shall inspect all ductwork associated with fugitive dust collection systems for leaks once a month. Any leaks detected shall be repaired within ten days. Any visible accumulation of sawdust on exterior horizontal surfaces (except for storage piles) shall be removed within ten days of discovery.

[Auth §V(B): MCAQMD Regulation 1, Rule 430(a), Permit No. 0120-1-20-76-10-2]

D. Gasoline Storage Tank with Phase II Vapor Recovery **{District Only. Not Federally enforceable}**

PERMITTEE shall operate the gasoline storage and dispensing system in compliance with District Regulation 3, Rule 1.

[Auth §V(C): MCAQMD Regulation 3, Rule 1, Permit No. 0120-]

E. Cooling Tower

PERMITTEE shall insure that the cooling tower meets all requirements of District Regulation 3, Rule 3.



[Auth §V(D): H&SC §39662, MCAQMD Regulation 3, Rule 3]

F. Maintenance of dust collection systems

PERMITTEE shall maintain in good working order without leaks and operate according to manufacturer's specifications system collection devices (inlets), contaminant transport systems (duct work), air movers (blowers), instrumentation (controls), subsystems (sprays, valves), and material feed and containment systems (hoppers and bins).

[Auth. §III(B): MCAQMD Permit No. 0120-1-20-96-53-9 and others]

G. Risk Management Plan

If the PERMITTEE becomes subject to Federal Risk Management Plan requirements, PERMITTEE shall respond in a timely manner.

[Auth §V(F): 40 CFR 70]

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